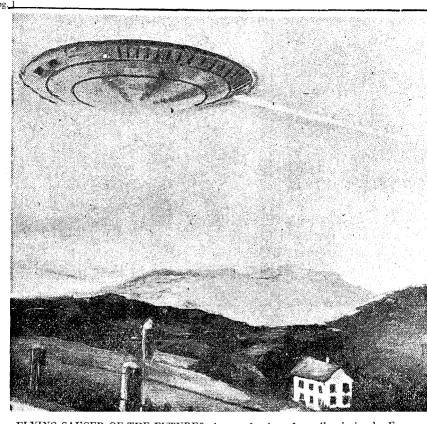
**Space-Ship Marvel Seen If Gravity Is Outwitted: Speeds of Thousands** Talbert, Ansel E *New York Herald Tribune (1926-1962)*; Nov 21, 1955; ProQuest Historical Newspapers: New York Tribune / Herald Tribune



A reproduction of an oil FLYING SAUCER OF THE FUTURE? M. Gluhareff, president of Gluhareff Helicopter & Airplane Corp. of Manhattan Beach, Calif., showing a "saucer-shaped" aircraft or space ship for exploring far beyond the earth's atmosphere and gravity field. Mr. Gluhareff portrays it operating beyond the earth's atmosphere and gravity field. Mr. Gluharess portrays it operating "at moderate speed" over the New York-New England area and notes that in the painting "a propulsive blast of the electron beams from the rear of the saucer is visible, giving the saucer a translational force.

# Space-Ship Marvel Seen If Gravity Is Outwitted

## Speeds of Thousands of Miles An Hour Without a Jolt Held Likely

This is the second of a series |dent of the United States "for on new pure and appli search into the myster gravity and efforts to ways to counteract it. and applied re-the mysteries of devise

By <mark>Ansel</mark> E. Talbert Military and Aviation Editor Scientists regard the earth oday as a giant magnet. Many in America's aircraft and elec tronics industries are excited over the possibility of using its magnetic and gravitational fields as a medium of support for amazing "flying vehicles" which will not depend on the air for

lift. Space ships capable of accel erating in a few seconds speeds many thousands of miles an hour and making sudden changes of course at these speeds without subjecting their passenthe so-called "G-forces" caused by gravity's pull also are envisioned. These concepts are envisioned. These concepts are part of a new program to solve the secret of gravity and universal gravitation already in progress in many top scientific laboratories and long-established industrial firms of the nation.

Nuclear Research Aids

Although scientists still know little about gravity and its exact relationship relationship to electro-magnet-ism, recent nuclear research and experiments with "high-energy machines" such as the Brookha-ven Cosmotron are providing a flood of new evidence believed to

have a bearing on this.

William P. Lear, inventor and chairman of the board of Lear, Inc., one of the nation's largest electronic firms specializing in aviation, for months has been going over new developments and theories relating to gravity with his chief scientists and en-

gineers.
Mr. Lear in 1950 received the
Collier Trophy from the Presi-

the greatest achievement in avi-ation in America" through de-veloping a lightweight autoweight atto-matic pilot and approach con-trol system for jet fighter planes. He is convinced that it will be possible to create artificial electro - gravitational fields

"whose polarity can be con-trolled to cancel out gravity."

He told this correspondent:

"All the 'mass,' materials and human beings within these fields will be part of them. They will be adjustable so as to increase or decrease the weight of any object in its surroundings. They won't be affected by the earth's gravity or that of any ce-

estial body.

"This means that if any perContinued on page 6, column 3 lestial

## Gravity

(Continued from page one)

son was in an anti-gravitational airplane or space ship that carairplane or space ship that ca ried along its own gravitation field—no matter how fast ye accelerated or changed course-your body wouldn't any mo feel it than it now feels the speed of the earth." its own gravitational more

Scientists and laymen for turies have been familiar with the phenomena that "like" poles of two magnets—the north and north poles for example—repel each other while "unlike" poles exert an attraction. In ancient times "lodestones" possessing natural magnetism were thought to possess magical powers. Faraday's Discoveries

nineteenth century discoveries of England's great scientist, Michael Faraday, paved the way for construction of artificial "electro-magnets" — in which magnetism is produced to the scientist of tificial "electro-magnets" — in which magnetism is produced by means of electric currents. They retain it only so long as the current is flowing. An electromagnet can be made by winding around a soft iron "core" a coil of insulated wire carrying electrical current. Its strength depends primarily on the numa coil of insulated wire carrying electrical current. Its strength depends primarily on the number of turns in the coil rather than the strength of the current. Even today America's rapidly expanding electronics industry is constantly finding new uses for electro-magnets. For ex-

is constantly finding new uses for electro-magnets. For example, Jack Fleicher, a young electronics and aeronautical engineer of West Covina, Calif., has just built a "Twenty-first Century Home" containing an electronic stove functioning by magnetic repulsion.

Pan Floats in Air

In it seven coils of mounted on laminated iron mounted on laminated iron cores are contained inside a plywood cabinet of, blond mahogany. The magnetic field from these coils induces "eddy currents" in an aluminum cooking pan nineteen inches in diameter, which interact and lift the pan into space like a minlature "flying saucer."

The cooking pan floats about

into space like a miniature "nying saucer."

The cooking pan floats about
two inches in the air above the
stove in a stabilized condition;
"eddy currents" generate the
heat that warms it while the
stove top itself remains cold. stove top itself remains cold.
The aluminum pan will hold additional pots and it can be used as a griddle. It is, of course, a variation of several other more familiar magnetic repulsion gadgets including the mysterious "floating metal ball" of science hall exhibits.

No type of electromeans will ethe Gravitational Changes

Mr. Gluhareff agrees with Dr. Pascual Jordan, of Hamburg impetus to the conquest of space."

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hall exhibits.

No type of electro-magnet known to science or industry would have any application to the building of a real aircraft or "flying vehicle." But one of America's most brilliant young experimental designers, Eugene M. Gluhareff, president of Gluhareff, president of Gluhareff Helicopter and Airplane Corp. of Manhattan Beach, Callf., has made several theoretical design studies of round or saucer-shaped "vehicles" for Calif., has made several theo-retical design studies of round or saucer-shaped "vehicles" for travel into outer space, having atomic generators of electric power as their basic "engines." Son of Copter Designer

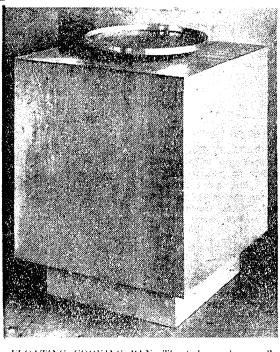
Son of Copter Designer
Mr. Gluhareff is the son of
Michael E. Gluhareff, chief designer for Dr. Igor I. Sikorsky,
helicopter and multi-engined aircraft pioneer. Dr. Sikorsky and
the elder Mr. Gluhareff, who has
won the Alexander Klemin
award, one of aviation's highest
honors, are themselves deeply
interested in the problem of honors, are them interested in the

honors, are themselves deeply interested in the problem of overcoming gravitation.

The younger Mr. Gluharest already has been responsible for several successful advanced designs of less amazing "terrestial" aircraft. He envisions the electric power obtained from the es." Such an arrangement not pollute the atmos-with radio-active vapors.

## Could Control Acceleration

Because of its "long-lasting fuel," an atomic-electronic flying disk would be able to control its



FLOATING COOKING PAN-The "electr functioning by magnetic repulsion built he Fletcher, a young engineer of West Covina, Calif. The aluminum cooking pan, nineteen inches in diameter, floats two inches above the cabinet like a miniature "flying saucer." It is completely stable while "hovering and can be used as a griddle or as a holder for additional pots and pans. "Eddy currents" from a magnetic field created by an electromagnet inside the cabinet have warmed the pan—although the stove top remains completely cold.

acceleration to any speed desired and there would be no need for be possible to induce substanting "shot into space," according to Mr. Gluhareff. Radial electronic beams around the saucer's rim would be operating constantly and would sustain thing the provided and would sustain the gravitational constantly and would sustain the filight by "acting against gravitly."

Mr. Gluhareff thinks that control can be achieved by a slight differentiation of the deflection of electronic beams would act in the same way as in either direction; the beams would act in the same way as and elevator.

Gravitational Changes

Mr. Gluhareff agrees with Dr. Pascual Jordan, of Hamburg University, one of Europe's out- of 1956. New York Heald Tribuse Inc. (A third article will appear